

# Supporting High Availability for Profiler services (Preview)

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# Supporting High Availability for Profiler services

The Profiler Services is now supported by enabling the High Availability (HA) feature.

Based on the entitlement, the HA functionality is supported on the Profiler cluster.

**Note:** This feature is under entitlement. Contact your Cloudera account representative to activate this feature in your CDP environment.

There are two types of Profiler Services:

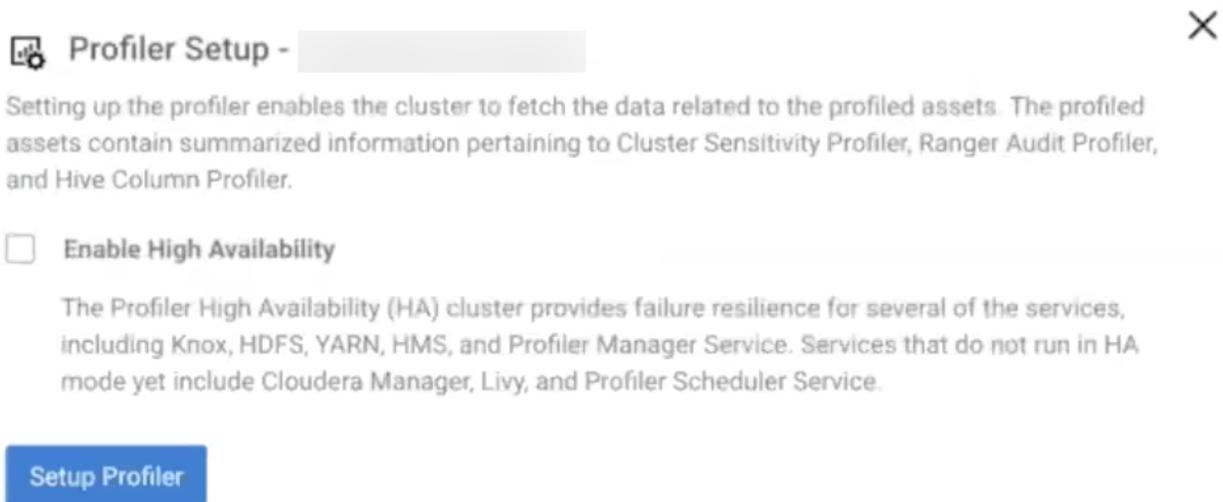
- **Profiler Manager**
- **Profiler Scheduler**

The **Profiler Manager** service consists of Profiler administrators, metrics, and data discovery services. These three entities support HA. The HA feature supports **Active-Active** mode.

**Attention:** The **Profiler Scheduler** service does not support the HA functionality.

As of this update, there is a new user interface which is introduced to launch profilers in Data Catalog.

On the Data Catalog search page, select the data lake from which you want to launch the profiler cluster. On the right-hand side of the window, the application displays the page to set up the profiler for the selected data lake. Click the **Get Started** link to proceed.



For setting up the profiler, you have the option to enable or disable the HA. Note that the HA functionality is being supported only from **Cloudera Runtime 7.2.10** release onwards. If you are

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using the Cludera **Runtime** version below 7.2.10, you shall not be able to use the HA feature for launching the profiler services.

Once you enable HA and click **Setup Profiler**, Data Catalog processes the request and the profiler creation is in progress.

 **Profiler Setup -** [redacted]
✕

Setting up the profiler enables the cluster to fetch the data related to the profiled assets. The profiled assets contain summarized information pertaining to Cluster Sensitivity Profiler, Ranger Audit Profiler, and Hive Column Profiler.

 **Enable High Availability**

The Profiler High Availability (HA) cluster provides failure resilience for several of the services, including Knox, HDFS, YARN, HMS, and Profiler Manager Service. Services that do not run in HA mode yet include Cludera Manager, Livy, and Profiler Scheduler Service.

 When enabled, the HA Profiler cluster provides greater resiliency and scalability by using more virtual machines that incur additional corresponding cloud provider costs.

**Setup Profiler**

[Atlas](#) [Ranger](#)

○ Profiler Cluster is being created ✕

[redacted] | 3
↻ Action ▾

<input type="checkbox"/> Type	Name	Location	Created On	Owner	Source	
<input type="checkbox"/> HBase Column Family	dt	/default:ATLAS_ENTITY_AUDIT_EVENTS.dt@cm	Tue Jul 27 2021	atlas	hbase	⋮
<input type="checkbox"/> HBase Namespace	default	/default@cm	-NA-	atlas	hbase	⋮
<input type="checkbox"/> HBase Table	ATLAS_ENTITY_AUDIT_EVENTS	/default	Tue Jul 27 2021	atlas	hbase	⋮

Later, a confirmation message appears that the profiler cluster is created.

[Atlas](#) [Ranger](#)

✔ Profiler Cluster is provisioned successfully ✕

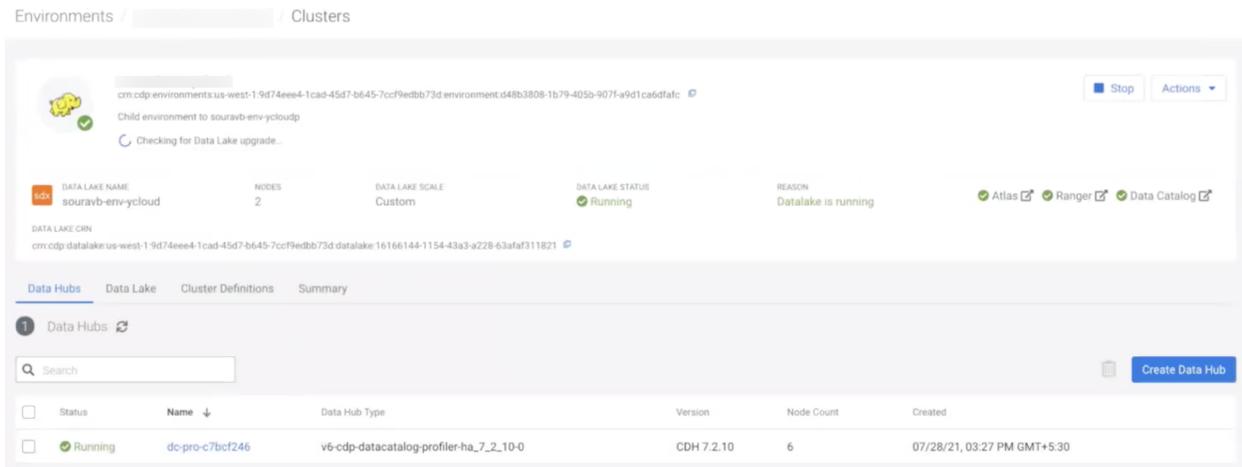
[redacted] | 3
↻ Action ▾

<input type="checkbox"/> Type	Name	Location	Created On	Owner	Source	
<input type="checkbox"/> HBase Column Family	dt	/default:ATLAS_ENTITY_AUDIT_EVENTS.dt@cm	Tue Jul 27 2021	atlas	hbase	⋮
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Next, you can verify the profiler cluster creation under **CDP Management Console > Environments > DataHubs** pane.

Note that the newly created profiler cluster has some unique representations under the following categories:



- **Data Hub Type** - The term “ha” is appended to the type of cluster that is newly created.
- **Version** - 7.2.10
- **Node Count** - (Which is 6)

Your Profiler cluster with HA is set up successfully.

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